



OFFICE OF THE PURCHASING AGENT

TOWN OF ARLINGTON
730 Massachusetts Avenue
Arlington, MA 02476

Telephone (781) 316-3003
Fax (781) 316-3019

DATE: April 20, 2018

TO ALL BIDDERS

BID NO. 18-15

SUBJECT: Bishop School Drainage Improvements

ADDENDUM NO. 2

TO WHOM IT MAY CONCERN:

With reference to the bid request relative to the above subject, please note the following:

DELETE: PAGE 2 OF BID FORM

ADD: ATTACHED REVISED PAGE 2 OF BID FORM

ADD: ATTACHED ADDITIONAL SPECIFICATIONS (SECTION 02500 PAVING AND SURFACING).

ADDENDUM MUST BE ACKNOWLEDGED WITH BID SUBMISSION.

All other terms, conditions and specifications remain unchanged.

Very truly yours,

Town of Arlington

Domenic R. Lanzillotti
Purchasing Officer

2. Alternates

This bid includes Alternates as follows:

ADD Alternate No. 1 (Sealcoating & Striping Parking Lot per Drawing C-1):

_____ dollars and _____ cents

\$(_____).

ADD Alternate No. 2 (Sealcoating & Striping Basketball Court per Drawing C-1):

_____ dollars and _____ cents

\$(_____).

D. If the Bid is accepted by the Owner, the undersigned agrees to complete the entire work provided to be done under the contract within the time stipulated by the Owner.

E. The undersigned agrees that for extra work, if any, performed in accordance with the AGREEMENT, he will accept compensation as stipulated therein in full payment for such extra work.

**SECTION 02500
PAVING AND SURFACING**

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Bidding requirements, Contract Forms, General and Supplementary Conditions and Division I, General Requirements are hereby made a part of this Section.

1.02 DESCRIPTION OF WORK

- A. The scope of work consists of all materials, equipment, labor and services required for all Paving and surfacing work, including all items incidental thereto, as specified herein and as shown on the Drawings.
- B. Work of this Section includes, but is not limited to, the following:
 - 1. Concrete Pavement.
 - 2. Expansion Joint Material
 - 3. Sealers
 - 4. Bituminous Concrete Pavement

1.03 RELATED WORK SPECIFIED ELSEWHERE

- A. Carefully examine all of the Contract Documents for requirements which effect the work of this section.
- B. Other specifications sections which directly relate to the work of this section include, but are not limited to, the following:
 - 1. Section 02100 - Site Preparation
 - 2. Section 02200 - Earthwork
 - 3. Section 02700 - Site Utilities

1.04 REFERENCE SPECIFICATIONS

- A. ASTM - American Society for Testing and Materials.
- B. AASHTO - American Association of State Highway and Transportation Officials.
- C. MSS – Commonwealth of Massachusetts , MHD Standard Specification for Highways and Bridges, 1988 Edition.

PART 2 - PRODUCTS

2.01 GRAVEL BASES

- A. Reference to gravel base material for all paving and surfacing shall conform to the gradation requirements specified in Section 02200, EARTHWORK.

2.02 CONCRETE PAVEMENT

- A. Concrete pavement shall be air-entrained having a minimum strength of three thousand (4,000) psi. in twenty-eight (28) days.
- B. Reinforcing for concrete pavement shall be six (6) by six (6) inches, No. Ten (10) welded wire mesh for 4 inch thick pavement and No. 4 dia. reinforcing steel bars.

2.03 EXPANSION JOINT MATERIALS

- A. Expansion joint materials - three-eighths (3/8) inch self-expanding cork shall conform to the requirements of A.S.T.M. D-1752, Type III.

2.04 SEALERS

- A. Joint sealers for sealing the top portion of expansion joints shall be one-component, elastomeric-type compound conforming to Federal Specification TT-S-00230C, Class A, Type I. Color of sealants shall match adjacent paver, brick, granite, concrete surface or masonry mortar.
- B. Bituminous concrete sealer shall conform to ASTM D-5727.

2.05 BITUMINOUS CONCRETE PAVEMENT

- A. Conforming to MSS Section 460, Class I, Type I-1.
- 1. Binder Course: coarse aggregate, with composition of mixture conforming to Section M3.11.04 of the MSS.
- 2. Wearing course: fine aggregate with composition of mixture conforming to Section M3.11.04 of the MSS.
- 3. Prime coat: cut back asphalt conforming to Section M3.02.0 of the MSS, Grade MC-70 or MC-250.

PART 3 - EXECUTION

3.01 SUBGRADE FOR PAVEMENTS

- A. Grading - Do any necessary grading in addition to that performed in accordance with Section 02200, EARTHWORK, to bring subgrades, after final compaction, to the required grades and sections for pavements.
- B. Preparation of Subgrade - Loosen exceptionally hard spots and compact. Remove spongy and otherwise unsuitable materials and replace with stable material. Fill and tamp traces of utility trenches.
- C. Compaction of Subgrade - Compact the subgrade of all surface areas with appropriate equipment or other means to such a degree as will insure against settlement of the superimposed work.

- D. Checking Subgrade - Maintain all subgrades in satisfactory condition, protected against traffic and properly drained, until the surface improvement is placed. Place grade stakes spaced sufficiently to afford facility for checking the subgrade levels. Correct irregularities, compacting thoroughly any fill materials.
- E. Utility Structures - Check for correct elevations and position all utility structure covers, grates, valve boxes and similar structures located within areas to be paved or surfaced and make, or have made, any necessary adjustments in such structures.
- F. The finished grade of the base course shall be true to the lines and grades as shown on the Drawing, less thickness of pavement, including cross-sections. Grade evenly and smoothly between points called for, especially transition zones, and rounding vertical curves.

3.02 CONCRETE PAVEMENT

- A. General: The Contractor shall furnish all labor and materials for constructing air-entrained reinforced concrete pavement, having a strength of 4,000 psi in 28 days, four (4) inches in thickness on compacted graded gravel base or on structure as shown on the Drawings.
- B. Concrete Finishes - No finishing operations shall be performed while free water is present. Finishing operations shall be delayed until all bled water and water sheen has left the surface and the concrete has started to stiffen.
- C. All concrete to have a broom finish (and match existing)
- D. Expansion Joints
 - 1. Place a premolded nonextruded resilient expansion joint against all vertical walls with flashing to within one (1) inch of finished grade. Install sealant over premolded expansion joint to within one-quarter (1/4) inch from the top of the pavement.
- E. Score concrete as shown on the Drawings before and after brooming to insure a smooth well-defined border. Tools shall be a one and one-half (1-1/2") inch edger and a three (3") inch groover. Score joints shall be a minimum of one (1) inch deep.
- F. Install expansion joints not more than twenty four (24) feet apart in concrete paving, also at pavement junctions with curbs, concrete bases, buildings and walls. Joints to be premolded one-half (1/2) inch and extend the full depth of pavement.

3.03 BITUMINOUS CONCRETE PAVEMENT

- A. General: Placement and compaction of bituminous concrete shall conform to requirements of MSS Section 460.
 - 1. Binder Course: after placement and compaction shall measure 1 1/2" thick
 - 2. Wearing Course: after placement and compaction shall measure 1 1/2" thick
- B. Grades: All grades in paved areas shall be established and maintained to a tolerance of 1/4" in 10'. Crown pavement to avoid low spots and puddling. Any corrective work shall be at the contractor's expense.

- C. Cutting Existing Pavement: Where a definitive line of separation between new and existing bituminous paving occurs, cut existing paving with a machine which permits cutting without damaging paving to remain in place and that will provide clean, sharp joints. Seal cut edges of paving with cut back asphalt and protect until new paving is placed. Cut back any existing paving which becomes damaged, disturbed or settles due to construction operations, by the same method specified above and replace with new bituminous paving at no additional cost to the Owner.
- D. Adjoining Existing Paving: Where new bituminous paving meets existing paving, adjust finish grades in the new work as necessary to blend smoothly with existing conditions. Prime existing paving with cut back asphalt at the rate of $\frac{1}{2}$ gallon per square yard prior to placement of new paving.

3.04 PAVEMENT SEALING

- A. Apply two (2) coats of specified sealer to all new bituminous concrete areas. The pavement shall have cured for a minimum of 30 days prior to sealing. Clean the pavement as necessary and apply sealer in accordance with the manufacturer's recommendations for the particular material used. Apply sealer at the rate of 0.18 gallons per square yard.

3.05 PAVEMENT MARKING

- A. Provide striping of new parking spaces as shown on the drawings. Striping paint to be white and conform to MSS, M7.01.05

**END OF SECTION
02500**